

The Institution of Engineers (India)

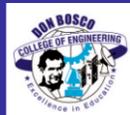
GOA STATE CENTRE



Under the Aegis of

MECHANICAL ENGINEERING DIVISION BOARD

in association with



DON BOSCO COLLEGE OF ENGINEERING (DBCE)

&

TURBOCAM INDIA PVT. LTD. (INDUSTRY PARTNER)

organises

NATIONAL WORKSHOP ON

“INDUSTRY 4.0 AND SMART MANUFACTURING- TRANSFORMING FUTURE FACTORIES”



on 16th & 17th October 2025

VENUE: DON BOSCO COLLEGE OF ENGINEERING, FATORDA &
TURBOCAM INDIA PVT. LTD., MARGAO INDUSTRIAL ESTATE

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FOR REGISTRATION



FOR QUERIES CONTACT
9325029277

FOR REGISTRATION

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OR

Visit the DBCE website at <https://dbcegoa.ac.in/>

About The Institution of Engineers (India)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 2.6 Lakhs. Established in 1920, with its headquarter Kolkata, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering. IEI has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and besides conducting its' own research, provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities. IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

About Goa State Centre

Goa State Centre of the Institution of Engineers (India) was started as Goa sub-centre on 27th September 1974. The Sub-Centre was attached to IEI, Maharashtra State Centre and in 1987, this Goa Sub-Centre was upgraded to Local Centre. In December 2008 Goa Local Centre was upgraded to Goa State Centre and has 1400 corporate members on its roll. This year this Centre has completed 50 years since its inception in 1974. It is located in the capital city at Altinho, Panaji Goa in the Government Polytechnic Panaji campus. The centre is involved in organising All India Seminars, Workshops, Lectures for disseminating knowledge to its engineering fraternity. The centre through its students' chapters is also involved in organising various skill training programmes to the students undergoing undergraduate and diploma studies.

About Department of Mechanical Engineering Don Bosco College Of Engineering (DBCE)

DBCE is one of Goa's leading technical institutions, recognized with awards at state and national levels. With MoUs signed with reputed organizations, including Binghamton University (USA), GCCI, and GTA, the campus offers advanced laboratories, modern seminar halls, prototyping facilities, a business incubation center (FiiRE), and a vibrant sports complex. The Department of Mechanical Engineering at DBCE actively fosters Industry–Institute Interaction through workshops, seminars, expert talks, and field visits, and has conducted over 30 corporate training programs. Supported by a dedicated faculty team, including four PhD holders, the department has secured excellent student placements in leading multinational companies in India and abroad. It has MoUs with Eurostampa India, Turbocam India Pvt. Ltd., and Sanofi Healthcare India Pvt. Ltd., and has garnered external funding of over ₹1 crore. Facilities include a CNC Centre and an Advanced Welding Lab, and consultancy services are offered in CNC machining, 3D printing, and CAD modelling. Students gain exposure through professional chapters of IEI, ISHRAE, and FSAI.

IEI- National Advisory Committee

Chairman	Er. VB Singh, President, IEI	
Co-Chairman	Er Sajjan Singh Yadav, Chairman , Mechanical Division Board, IEI	
Members	Prof. Dr. Girish Mundada, Vice Presidents, IEI Er. KKG Nair, Vice Presidents, IEI	
	Smt. Dr. Shilpa Tripathy, Chairperson, CATE, IEI	
	Dr. Bharat Raj Singh Dr. Brahma Raju K Er. Narendra Kumar Yadav Dr. Mahesh Kumar Gupta Er. Kiran Chander Sethi Dr. M L S Deva Kumar Dr. G Venkata Subbaiah Er. K V Rama Mohan Rao Dr. Dharmendra Kumar Jain Er. Lochan Kumar Adhikari Dr. Nilajkumar N. Deshmukh	Dr. G Ranganath Er. Devendra Gill Dr. R Venkatesan Dr. Enti Ranga Reddy Er. K N S Prakash Rao Er. P Balakrishnan Nair Dr. P Udhaya Kumar Er. Rajbir Singh Malik Er. Samir Dilip Kothari Er. M Venkatachalam Er. Mahesh Barkataki

Registration Fees

- IEI Members/ Academicians : Rs. 800/- + 18% GST
- Industry Professionals : Rs. 1500/- + 18% GST

About The Workshop

The workshop will introduce the latest advancements in smart manufacturing, from additive manufacturing techniques like Fused Filament Fabrication and the transformative potential of the Internet of Things (IoT) to the power of artificial intelligence, machine learning, and machine vision in optimizing processes, alongside immersive applications of virtual and augmented reality. Participants will explore how the data flow cycle underpins Industry 4.0 systems, experience the application of robotics in enhancing productivity and safety, and learn how AI is transforming condition monitoring and predictive maintenance.

Topics

- Smart Technologies for Industry 4.0
- Fused Filament Fabrication (FFF) Technology: Overview & Status
- Role of Artificial Intelligence and Machine Learning/ Machine Vision in Smart Factories
- Data Flow Cycle in Industry 4.0
- Virtual and Augmentative Reality
- Condition Monitoring and Artificial Intelligence: A Pathway to Predictive Maintenance.
- Application of Robotics in Smart Manufacturing
- Practical Sessions on Computer Vision with Python and Internet of Things (IoT)

Real-time Demonstration of Industry 4.0 and Robotic Cell Implementation

Speakers



Dr. D. M. Kulkarni
Senior Professor, Department of Mechanical Engineering,
BITS Pilani, K. K. Birla Goa Campus



Dr. Shitala Prasad
Assistant Professor, Computer Science and Engineering,
School of Mathematics and Computer Science, IIT Goa



Dr. Arnab Kumar Paul
Assistant Professor, Department of Computer Science and
Information Systems, BITS Pilani, K K Birla Goa Campus



Er. Suryakant Gawde,
Consultant, Vibration monitoring & analysis - Level III
of Vibration Institute USA



Dr. Ajit Salunke
Associate Professor, Department of Mechanical
Engineering, Don Bosco College of Engineering, Goa



Dr. Shreya Prabhudesai
Assistant Professor, SPAS, Goa University



Prof. Lance Randall de Mello
Assistant Professor, Department of Computer Engineering,
Padre Conceicao College of Engineering, Goa



Er. Asher De Souza
Automation Engineer, Turbocam India Pvt. Ltd., Goa



Dr. Shreyas Simu
Assistant Professor, Department of Electronics & Computer
Science, Don Bosco College of Engineering, Goa



Er. Royston DaCosta
IT and Automation Engineer, Turbocam India Pvt. Ltd.,
Goa



Er. Carmelito Jose Andrade
Drone Pilot/Technician Trade at Govt. ITI Cacora

Organizing Committee

Patrons	<ul style="list-style-type: none"> • Fr. Ralin De Souza, Rector, Don Bosco Fatorda • Fr. Wilfred Fernandes, Director, DBCE • Fr. Leo Pereira, Administrator, DBCE • Dr. Neena Panandikar, Principal, DBCE
Advisory Committee	<ul style="list-style-type: none"> • Er. Anwar Khan, Chairman, IEI, Goa State Centre • Er. Siddanth Dubashi, Secretary, IEI, Goa State Centre • Mr. Savio Carvalho, Director, Turbocam India Pvt. Ltd. • Mr. Gilroy Coutinho, Training Officer, Turbocam India Pvt. Ltd.
Convenors	<ul style="list-style-type: none"> • Er. Benedicto Andrade Convenor (Mechanical), IEI, Goa State Centre 9899873024, bene7586@gmail.com • Dr. Suraj Marathe, HOD, Department of Mechanical Engineering, DBCE suraj.marathe@dbcegoa.ac.in
Coordinators	<ul style="list-style-type: none"> • Dr. Ajit Salunke, Associate Professor, Department of Mechanical Engineering, DBCE 9921878026, ajit.salunke@dbcegoa.ac.in • Prof. Sharad Shanbhag, Assistant Professor, Department of Mechanical Engineering, DBCE 9986223705, sharad.shanbhag@dbcegoa.ac.in

Payment Details:

A) In case of payment by Draft or Cheque: Remittances shall be made by Cheque/Demand Draft payable to 'The Institution of Engineers (India), Goa State Centre' payable at Panaji, Goa. Encl: Cheque/DD No. _____ dated _____ drawn on. 'The Institution of Engineers (India)- Goa State Centre payable at Panaji, Goa for Rs. _____

B) In case of NEFT/RTGS/Net Banking, to the Account as mentioned below:

Beneficiary Name: 'The Institution of Engineers (India), Goa State Centre'
Account No. 107102000004084 IFSC No. IBKL0000546 MICR No. 403259002 Bank Name & Branch: IDBI BANK, Panaji Goa. Type of Account: Current Account. Transaction dated: UTR/Payment Reference No. _____ Name of the Bank & Branch _____ Amount for Rs. _____

Note: Please enclose a copy of the Receipt along with the google form.